DEWEZE

RT Flatbed

Operation and Service Manual

REEL TRANSPORT

HARPER INDUSTRIES,INC. © 2011

Part No. 200283

Thank you for purchasing a DewEze Flatbed.

TO THE OWNER OR SERVICE TECHNICIAN:

As with all DewEze products, the 400 and 500 Series Flatbeds have been thoroughly tested and strongly built to provide a product that can be relied on. The Flatbed is equipped with live hydraulics which allows it to be used for a wide range of lifting and hauling tasks. This manual is written as an aid to operating and maintaining the DewEze Flatbed.

A Flatbed can present hazards to an operator who follows unsafe procedures in either the operation or maintenance of the unit. Therefore, SAFETY WARNINGS are present at certain locations in the text. Harper Industries is not responsible for accidents or injuries that result from the misuse or lack of maintenance of the Flatbed.

SYMBOL: ⚠ **SAFETY WARNING!** ⚠

MEANING: The SAFETY WARNING symbol found throughout this manual is used to call attention to instructions involving personal safety and the safety of others. Failure to understand and obey these warnings can result in serious injury or death.

Harper Industries, Inc. is continually striving to improve the design and performance of its products. We reserve the right to make changes in specifications and design without thereby incurring any obligation relative to previously manufactured products.

For any questions please contact your local dealer or the DewEze factory directly.

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STATEMENT OF WARRANTY

Harper Industries warrants to each purchaser of a new DewEze Flatbed from an authorized dealer or representative, that such equipment will be free of manufacturer's defects which appear while in normal service for a period of **TWO YEARS** commencing with delivery to the original user. The Flatbed hydraulic system is warranted for a period of one year.

The obligation of DewEze under this warranty is expressly limited, at our option, to replacement or repair at a service facility designated by DewEze or at the manufacturing plant in Harper, Kansas. Parts will be replaced after inspection discloses it to have been defective. This warranty does not apply to defects caused by damage or unreasonable use (including failure to provide reasonable and necessary maintenance) while in the possession of the consumer.

DewEze shall not be liable for consequential damages of any kind, including but not limited to consequential labor costs or transportation charges in connection with replacement or repair or defective parts.

DewEze makes no warranty with respect to trade accessories. They are subject to the warranties of their respective manufacturers.

ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. DewEze makes no other express warranty, nor is anyone authorized to make any of behalf of DewEze.

For further information please contact your nearest DewEze dealer.

RECORDS

Date of Purchase _____ / _____ / _____

Dealer's Name _____

Dealer's Phone _____

Serial Number Machine _____

Serial Number Engine _____

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Specifications

MODEL IDENTIFICATION

MODEL	470	470W	475	477	478	480	482	485	487	578	582	587
WIDTH	7’	7’ 8”	7’	7’	7’ 8”	7’ 8”	7’ 8”	7’ 8”	7’ 8”	8’	8’	8’
LENGTH	7’	7’	8’ 6”	9’ 4”	8’ 6”	9’ 2”	9’ 4”	10’ 6”	11’ 6”	8’ 6”	9’ 4”	11’ 6”
WEIGHT	1830	1860	1880	2000	1960	2020	2040	2220	2260	2060	2180	2400

*** Add 100 lbs. for extendible arm option.**

FLATBED SPECIFICATIONS

HYDRAULIC SYSTEM	Powered by engine driven pump or self-contained battery-powered electric/hydraulic unit
SYSTEM PRESSURE	2450 psi
OIL RESERVOIR CAPACITY	10 gallons
OIL FILTER	DewEze 720043, WIX 51551 (10 micron)
CYLINDER, LIFT	4.50” x 16.64”
CYLINDER, SQUEEZE	2.00” x 34.00” (400 Series) 2.00” x 39.25” (500 Series & all XRM)
CYLINDER, EXTENDIBLE*	2.00” x 20.0” (left side)
CYLINDER EXTENDIBLE*	2.50” x 20.0” (right side)

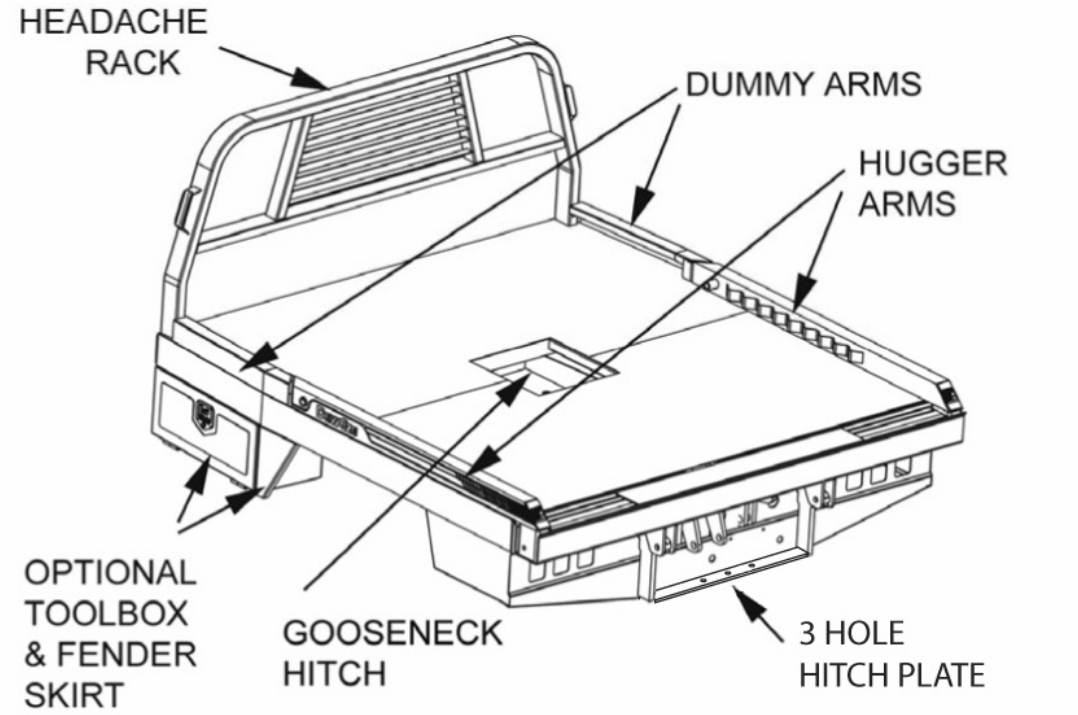
*** Cylinders used for extendible arm are optional.**

BOLT TORQUE SPECIFICATIONS
(UNLESS SPECIFIED ELSEWHERE)

BOLT DIAMETER	BOLT TORQUE (ft-lb)
5/16”	19
3/8”	33
5/8”	160
1”	630

Note:
Specifications are for No. 5 bolts with no lubricant.

Feature Identification



Dummy Arms – serve as side rails, along with the hugger arms, for the flatbed.

Hugger Arms – squeeze together to grip the bale and lift it onto the flatbed. When the arms are stored they serve as side rails for the flatbed.

Headache Rack – protects the rear pickup window. The hydraulic fluid tank and the valve are also located in the bottom, left side of the headache rack.

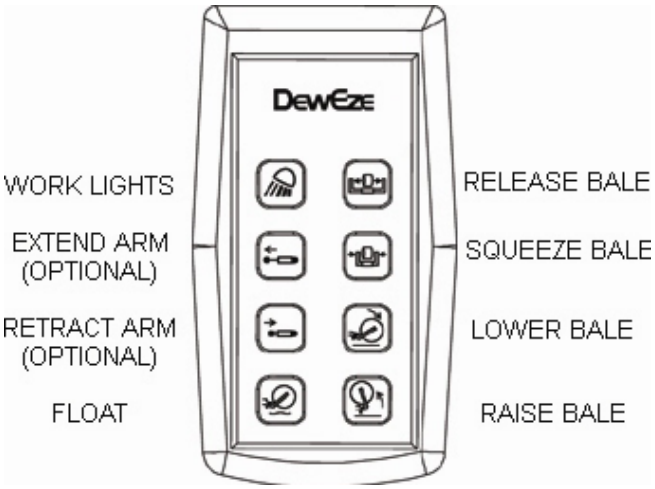
Gooseneck Hitch – is located under a door in the middle of the bed.

Hitch Plate – has three holes for towing.

SAFETY WARNING!
Do not exceed chassis manufacturer's recommended towing capacity.

Optional Toolbox & Fender Skirt – mount under the bed on both sides. The Electric / Hydraulic power unit mounts inside of the toolbox on the left side.

Remote Hand Control – operates the functions of the flatbed. Uses two AAA batteries.



Safety Guidelines

Equipment Safety

Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. Many accidents can be avoided by observing the precautions in this section. To avoid personal injury, study the precautions listed in this manual and follow them.

- Do not attempt to operate this equipment under the influence of drugs or alcohol.
- Review the safety instructions with all users annually.
- This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operation.
- Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.

If you have any questions not answered in this manual or require additional copies, please contact your dealer or DewEze Manufacturing.

General Flatbed Safety

SAFETY WARNING!

Do not stand under the hugger arms when operating the bale pickup unit, even when arms are empty.

- Replace any CAUTION, WARNING, DANGER or instructional decal that is not readable or is missing.
- Make sure all safety pins are in place and flatbed mounting bolts are secure to the truck frame.
- Make sure hinges, joints, and sliding parts are well greased, especially during off season to prevent rusting and binding.
- Check with truck dealer for any load limits, additional suspension or tire requirements. The flatbed's carrying capability may exceed the truck's GVRW, especially on a ¾ ton truck.

Hydraulic Safety

SAFETY WARNING!

Hydraulic system operates under high pressure and escaping fluid can penetrate the skin.

- Do not operate hydraulic system with hood open.
- Do not activate electric clutch unless truck engine is at idle. Switching the clutch on at road speeds can seriously damage your hydraulic system.

Operating Instructions

Beginning Operation

- Place 6” or 12” cradles on hugger arms where desired and secure with 4” pins.
- Slide shaft into reel and secure with one of the L-shaped pins.
- Turn pump switch on the dash to the “ON” position. (Red light will indicate the pump is on).

IMPORTANT: In cold weather, allow the engine to idle for 5-10 minutes with the pump on before operating the arms. This will allow the oil to warm up and flow more freely. Neglecting to do this may cause hydraulic pump failure.

Loading

- Back the truck towards the reel with the arms spread apart.
- Position the cradles over the shaft and lower until they are fully seated.
- Secure the shaft in the cradles with the L-shaped pins.
- Lift the reel onto the truck.

SAFETY WARNING!

When hauling a reel, make sure it is resting on the flatbed and is tightly secured. Carrying a reel behind the bed, places excessive stress on the lift cylinder, linkage, pins and shaft. Dislocation of a reel could result in serious injury or death to passengers of vehicles following behind.

Unloading

- To unload, do the reverse of the loading operation.

Unrolling

- Position the truck on as level terrain as possible and parallel to the direction the cable will be pulled, then set the parking brake.
- Pick the reel up a few inches off the flatbed so it will turn freely.
- The pump may be turned off during the unrolling operation.
- Take precautions necessary to ensure that the reel unrolls smoothly.
- Begin unrolling.

Storing the Arms

- Close the arms partially and lay them on the flatbed.
- Open arms until they are flush with the side of the bed. They now function with the dummy arms as the bed’s side rails.

Turn System Off

- Turn the pump off when it is not in use.

CAUTION: Operating the truck at road speeds, or above 2,000 RPM, with the pump engaged, may cause hydraulic pump failure.

Maintenance

Check Daily or Before Use

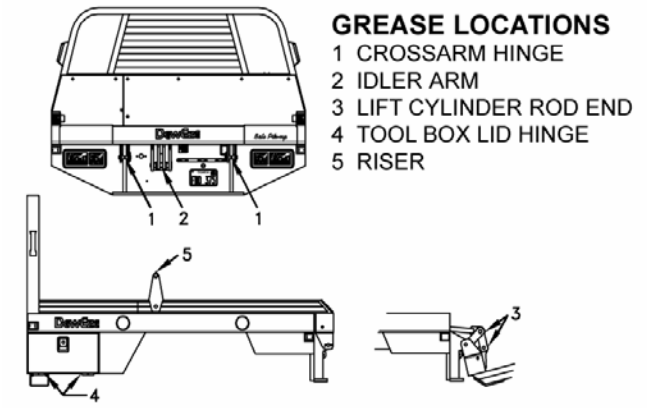
- Check hydraulic oil level. Keep level between “add” and “full” on dipstick.
- Check belt tension and idler pulleys on engine clutch pump system.
- Examine hydraulic hoses for cracks or leaks.

SAFETY WARNING!

Do not check for hydraulic leaks with your hands while the system is operating. Use a piece of wood or cardboard. Hydraulic fluid escaping under pressure can penetrate the skin and may cause death if not treated immediately.

Grease

- Grease the locations indicated in the illustration below once per week.



Hydraulic Pressure

- Hydraulic system pressure should be 2450 psi.
- To check pressure, hook a test gauge to the quick-couplers.

Hydraulic Oil

- Change hydraulic oil when it is milky in appearance, or annually.
- Change hydraulic oil filter after the first 40 hours of use and then every 250 hours, or annually thereafter.
  In Cold Weather (below 10° F)
- Fill with hydraulic oil specifically rated for cold weather.
- Do not attach other hydraulic equipment to the bed. The oil will intermix and the cold weather viscosity will be lost.

Other Maintenance Notes

- If the quick-couplers leak, the o-rings inside may need to be replaced.
- High heat, 190° or greater, can be damaging to the hydraulic system. Feel various parts of the system to make sure there are no “hot spots” which may indicate a problem.
- For easy hookup of the couplers, shut switch “off” and activate control valve switches with the ignition “on”. This will release the pressure in the lines.
- In the off season, run the bed at least twice a month to prevent valve condensation.

Troubleshooting

Problem	Symptom	Possible Solutions
Hydraulic Pump	No Oil Flow	• CHECK OIL LEVEL IN RESERVOIR. If oil level is low, check for leaks in system. • CHECK BELT TENSION. Tighten if needed. Replace belt if necessary. • CHECK FOR SHEARED KEY ON PUMP SHAFT. Replace key. • CLUTCH NOT FUNCTIONING. See clutch section. • INTERNAL PUMP DAMAGE. Have pump repaired or replaced. • CHECK PRESSURE LINE AT PUMP TO SEE IF OIL IS MOVING. • CHECK TO SEE IF SUCTION HOSE COLLAPSES IN SUCTION
Hydraulic Pump	No Oil Pressure	• VALVE NOT FUNCTIONING. Check for disconnected wires at solenoid. • CHECK FOR POSSIBLE LEAKS IN SYSTEM. Repair blown hoses. • CHECK FOR MALFUNCTIONING SWITCH. Replace broken switches. • PRESSURE RELIEF IS BROKEN ALLOWING OIL TO BYPASS SYSTEM. Replace pressure relief. • PRESSURE SEAL ON PUMP IS BROKEN OR WORN. Replace. • BELTS OR CLUTCH MAY BE SLIPPING. Tighten belts. • PRESSURE RELIEF MAY BE SET TOO LOW. **CAUTION: PRESSURE EXCEEDING 2,600 PSI CAN DAMAGE THE PUMP.**
Clutch	Does Not Engage	• CHECK FOR BLOWN FUSE. Replace. **CAUTION: FUSE SHOULD NOT EXCEED 30 AMPS** • CHECK WIRE TO CLUTCH. Insure there are no breaks or shorts. • CHECK FOR BAD SWITCHES IN SYSTEM. Replace. • CHECK FOR BAD MAGNETIC COIL. Use jumper from positive battery terminal to check coil. Replace coil if necessary.
Belt(s)	Jumps Off Pulley	• BELTS TOO LOOSE. Tighten belts. • CHECK FOR EXCESSIVE BELT WEAR. Replace worn belts. • CHECK FOR LOOSE PUMP BRACKET. Tighten loose bolts. Replace broken bolts. • CHECK ALIGNMENT OF CLUTCH AND CRANKSHAFT PULLEYS. Re-align pulleys. • CHECK CRANKSHAFT PULLEY FOR LOOSE OR BROKEN BOLTS. Tighten loose bolts. Replace broken bolts. • CHECK ALIGNMENT OF IDLER PULLEY AND THE CONDITION OF IDLER PULLEY BEARINGS. Re-align idler pulley. Replace worn or broken bearings. • MAKE SURE THAT BELTS ARE NOT CRACKED OR WORN.

DEWEZE

400 & 500
Series Flatbed

Parts Section

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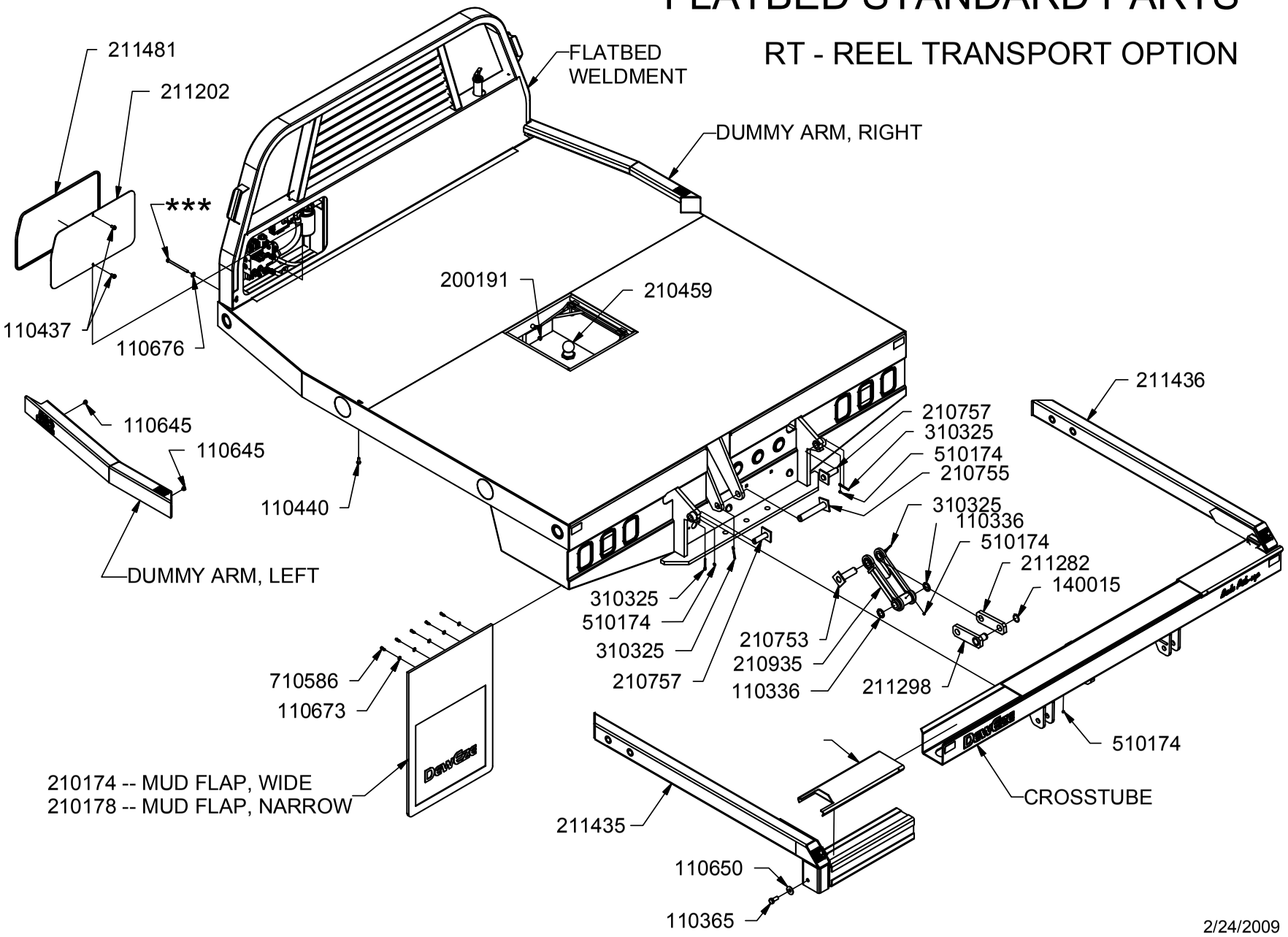
FLATBED STANDARD PARTS

RT - REEL TRANSPORT OPTION



FLATBED STANDARD PARTS

RT - REEL TRANSPORT OPTION

STANDARD	FLATBED WELDMENT	CROSSTUBE	DUMMY ARM LEFT	DUMMY ARM RIGHT
470	211230	211311	211209	211207
470W	211470	211310	211209	211207
475	211232	211311	210663	210661
478	211233	211310	210667	210665
477	211231	211311	211001	210999
480	211234	211310	211447	211446
482	211235	211310	211264	211266
485	211236	211310	211451	211450
487	211237	211310	211453	211452
578	215013	215026	215059	215058
582	215014	215026	215055	215056
587	215016	215026	215061	215060

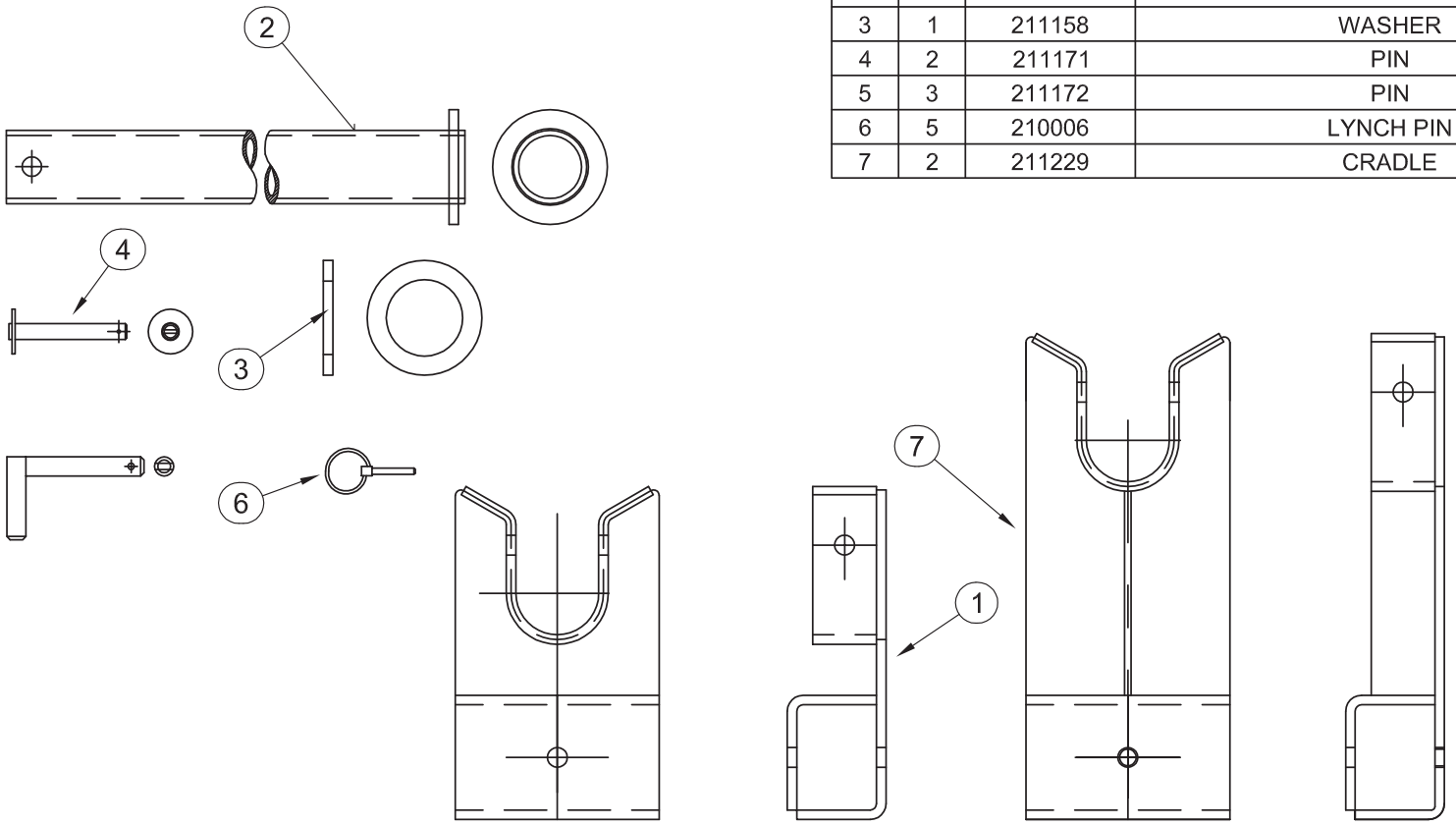
Parts List		
PART #	QUANTITY	DESCRIPTION
110336	2	WASHER, 1-1/4 FLAT MACHINE 10GA
110365	2	BOLT, 5/8-18 X 1.5 GR 5
110437	2	BOLT, 3/8-16 X 0.75, WIZ FLANGE
110440	2	BOLT, 3/8-16 X 1, WIZ FLANGE
110645	2	NUT, 3/8-16 WIZ FLANGE
110650	2	WASHER, 5/8" FLAT STANDARD
110673	10	WASHER, 1/4" FLAT STANDARD
110676	2	WASHER, 3/8" FLAT STANDARD
200191	2	BUSHING, .5 X .375 X .500 W/FLNG
210459	1	HITCH BALL AND NUT
210753	1	PIN ASSY, LIFT CYLINDER ROD END
210755	1	PIN ASSY, IDLER ARM
210757	2	PIN ASSY, CROSSARM PIVOT
210935	1	IDLER ARM, MACHINE DWG.
211202	1	VALVE COVER
211292	2	SHIELD, CROSSTUBE
211297	---	PUSH ARM KIT
211298	1	PUSH ARM WELDMENT
140015	1	SNAP RING
211282	1	PUSH ARM
211481	1	EDGE TRIM
310325	4	COTTER PIN, 1/4 X 2
510174	4	GREASE ZERK, 1/4-28 ST
710586	10	SCREW, 1/4 X 1 TEK SELF-TAP

*** 400 SERIES
2ea 110533 -- BOLT, 3/8-16 X 5.0

500 SERIES
2ea 110542 -- BOLT, 3/8-16 X 5.5

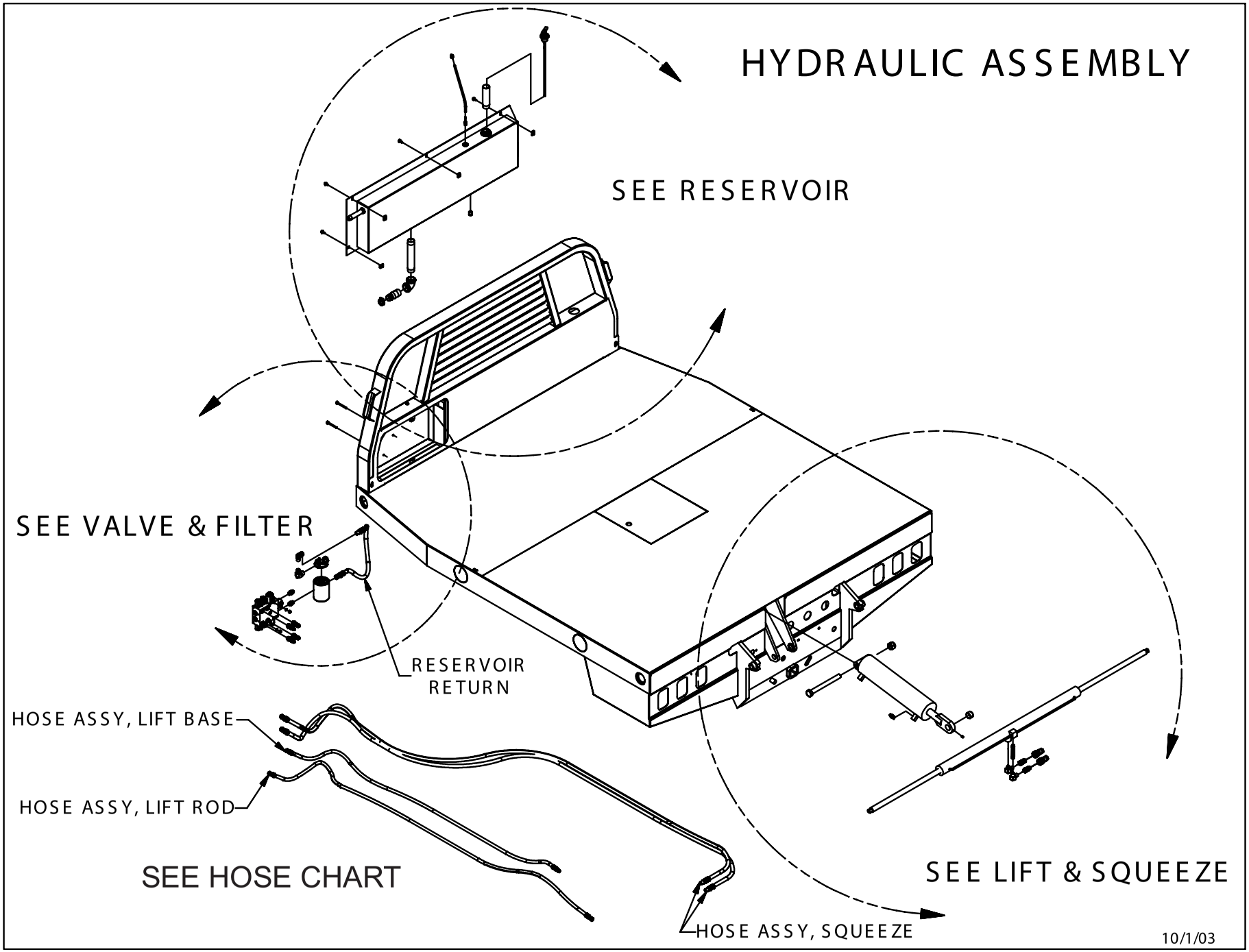
2/24/2009

ITEM	QTY	PART #	NAME
1	2	211151	CRADLE
2	1	215070	SHAFT
3	1	211158	WASHER
4	2	211171	PIN
5	3	211172	PIN
6	5	210006	LYNCH PIN
7	2	211229	CRADLE



REEL TRANSPORT ASSEMBLY 6" - 12" PART NO. 215021

HYDRAULIC ASSEMBLY



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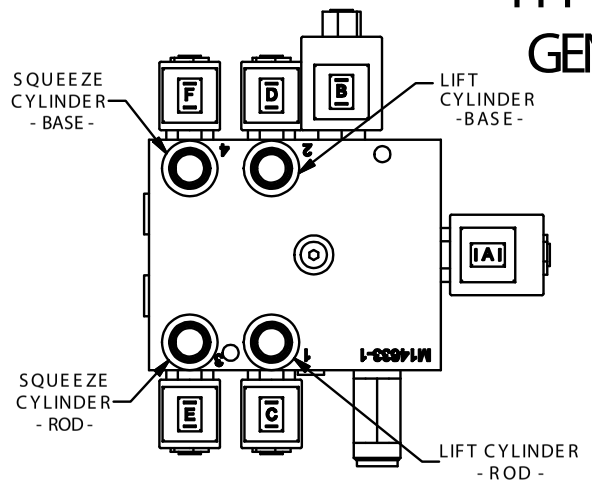
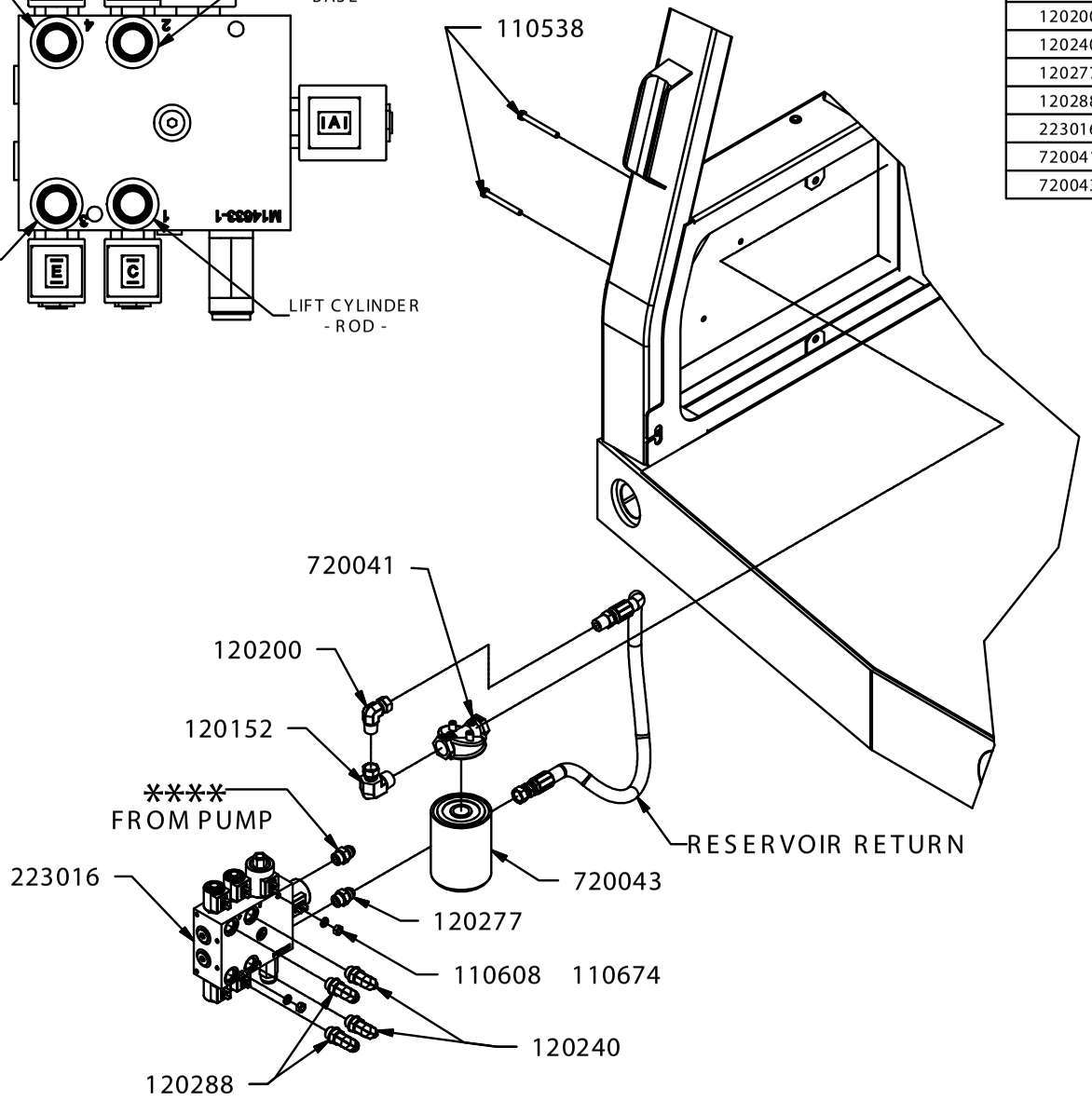
HYDRAULIC ASSEMBLY
GEN2V ALVE & FILTER





Parts List		
PART #	QUANTITY	DESCRIPTION
110538	2	BOLT, 5/16-18 X 3.0
110608	2	NUT, 5/16-18
110674	2	WASHER, 5/16" LOCK
120152	1	ADAPTER, 12MP-8FPX90
120200	1	ADAPTER, 8MP-8FPX90
120240	2	ADAPTER, 6MJ-8MB90
120277	1	ADAPTER, 8MJ-8MB
120288	2	ADAPTER, 8MJ-8MB90
223016	1	VALVE, FLATBED MONOBLOCK
720041	1	FILTER HEAD
720043	1	FILTER, 10 MICRON

**** 5, 7& 9 GALLON SYSTEM
120277 -- ADAPTER 8MJ-8MB

12 & 17 GALLON SYSTEM
120174 -- ADAPTER, 8MB-12FPX

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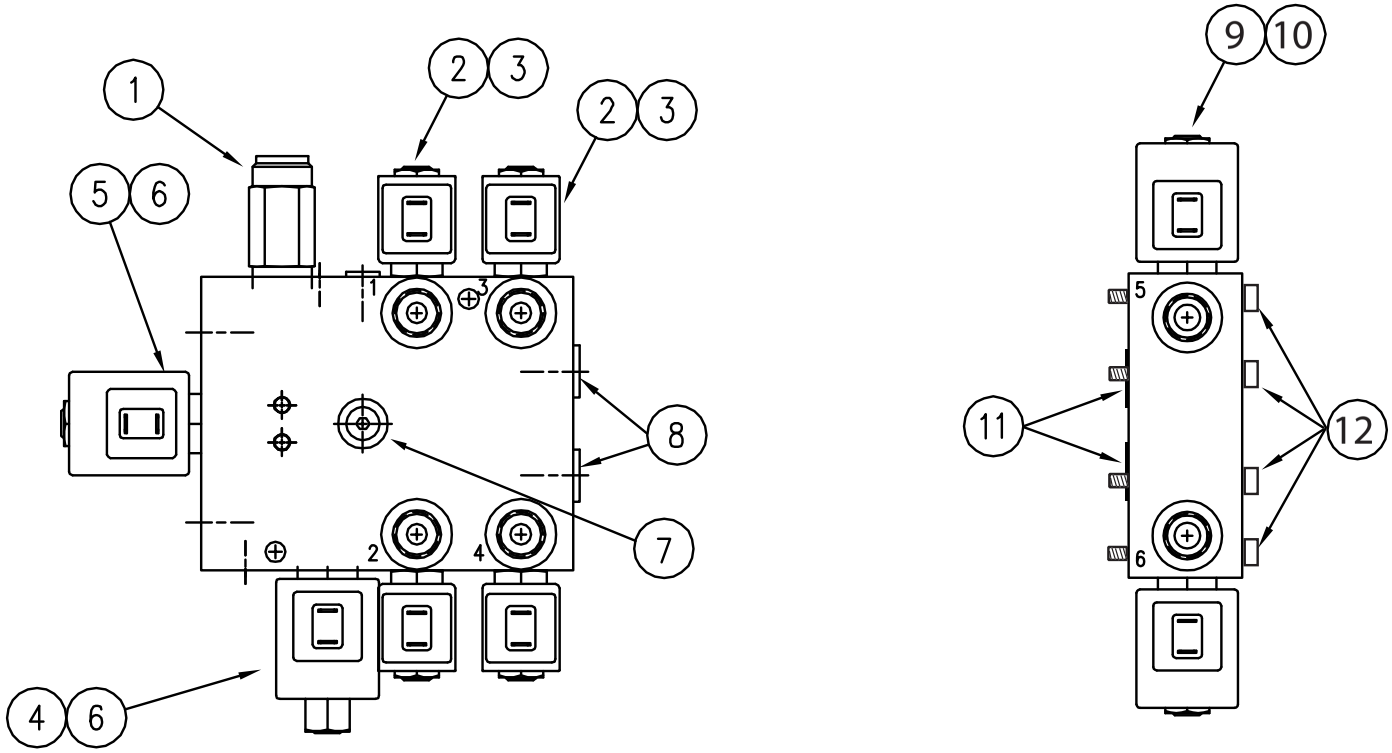
GEN 2 VALVE - SERVICE PARTS



ITEM NO	DESCRIPTION	PART NO.	QUAN
1	VALVE, PRESSURE RELIEF	222004	1
2	CARTRIDGE, #8 VALVE, W/O COIL	720015	4
3	COIL, #8 VALVE, 12 VOLT	820143	4
4	SPOOL, #10 VALVE	820232	1
5	VALVE, DIRECTIONAL, 4-WAY	222002	1
6	COIL, #10 VALVE, 12 VOLT	820229	2
7	O-RING, ADAPTER #4 7/16-20	120062	2
8	O-RING, ADAPTER #8 3/4-16	720164	2
	VALVE, MONOBLOCK, COMPLETE	**223016**	1

VALVE FOR ADDITIONAL THIRD BANK

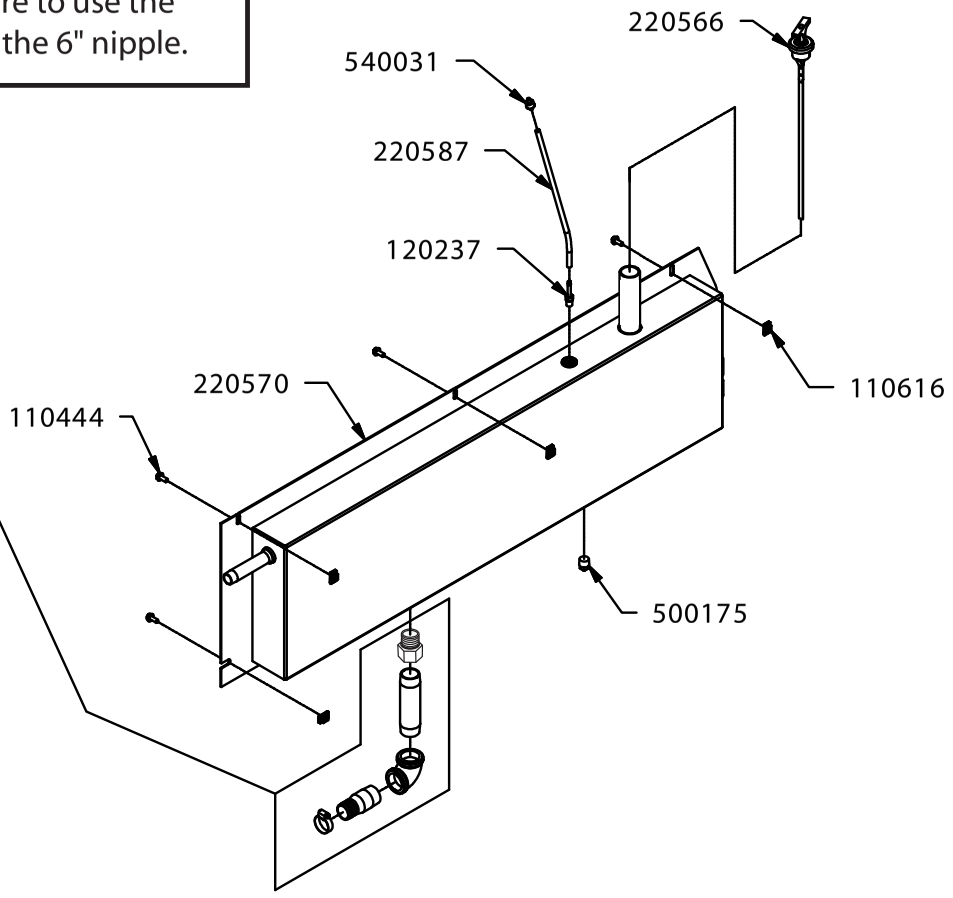
ITEM NO	DESCRIPTION	PART NO.	QUAN
9	VALVE, POPPET FOR 223017	222003	2
10	COIL, #10 VALVE, 12 VOLT	820229	2
11	O-RING, -219, 90 DURO	120376	2
12	BOLT, 5/16-18 X 2 SHCS	110168	4
	VALVE, 3RD BANK ADD ON (223016)	**223017**	**1**

HYDRAULIC ASSEMBLY
RESERVOIR

Parts List		
PART #	QUANTITY	DESCRIPTION
110444	4	BOLT, 5/16-18 X 0.75, WIZ FLANGE
110616	4	NUT, 5/16", J-TYPE, CAGE, .5C
120237	1	ADAPTER, 4BH-4MP
220566	1	DIP STICK
220570	1	RESERVOIR WELDMENT
220587	1	VENT HOSE
500175	1	FITTING, PLUG 1/2" PIPE
540031	1	FUEL FILTER

IMPORTANT:
The hydraulic reservoir has an O-ring fitting in the bottom where the suction line is connected. Be sure to use the correct adapter (120015) before attaching the 6" nipple.

5, 7 & 9 GALLON SYSTEM		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
200083	1	FITTING, NIPPLE, 1-1/4 X 6
220107	1	FITTING, REDUCER, 1-1/4 - 1.0 ELL
720075	1	HOSE BARB, 1
720107	1	HOSE CLAMP, #20
12 & 17 GALLON SYSTEM		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
200083	1	FITTING, NIPPLE, 1-1/4 X 6
720158	1	FITTING, ELL 1-1/4
220217	1	HOSE BARB, 1-1/4
511002	1	HOSE CLAMP, #24
2003 DODGE DUALLY, 5, 7 & 9		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
720070	1	FITTING, REDUCER, 1-1/4 - 1.0
720075	1	HOSE BARB, 1
720107	1	HOSE CLAMP, #20
2003 DODGE DUALLY, 12 & 17		
PART #	QTY	DESCRIPTION
120015	1	ADAPTER, 20MB-20FP
220217	1	HOSE BARB, 1-1/4
511002	1	HOSE CLAMP, #24



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HOSE CHART

400 & 500 SERIES WITH GENERATION 2 VALVES

FLATBED SERIES	SQUEEZE HOSES 8M3K - 8MP / 8FJX		LIFT HOSES 6M3K - 6MB / 6FJX	LIFT HOSES 6M3K - 6FJX / 6FJX	RESERVOIR RETURN 8M3K - 8MP / 8FJX	HYDRAULIC HOSE KIT #
	IN (BLUE)	OUT (ORANGE)	BASE (BROWN)	ROD (GREEN)		
470	220610 (129in)	220610 (129in)	220611 (65in)	220646 (84in)	220422 (26.75in)	223024
470W	220610 (129in)	220610 (129in)	220611 (65in)	220646 (84in)	220422 (26.75in)	223024
475	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220422 (26.75in)	223018
478	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220422 (26.75in)	223018
477	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	223019
480	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	223019
482	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	223019
485	220619 (176in)	220619 (176in)	220620 (112in)	220644 (131in)	220422 (26.75in)	223020
487	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220422 (26.75in)	223020
578	220613 (152in)	220613 (152in)	220614 (88in)	220642 (107in)	220422 (26.75in)	223018
582	220616 (164in)	220616 (164in)	220617 (100in)	220643 (119in)	220422 (26.75in)	223019
587	220622 (182in)	220622 (182in)	220623 (118in)	220644 (137in)	220422 (26.75in)	223020

HYDRAULIC ASSEMBLY
LIFT & SQUEEZE

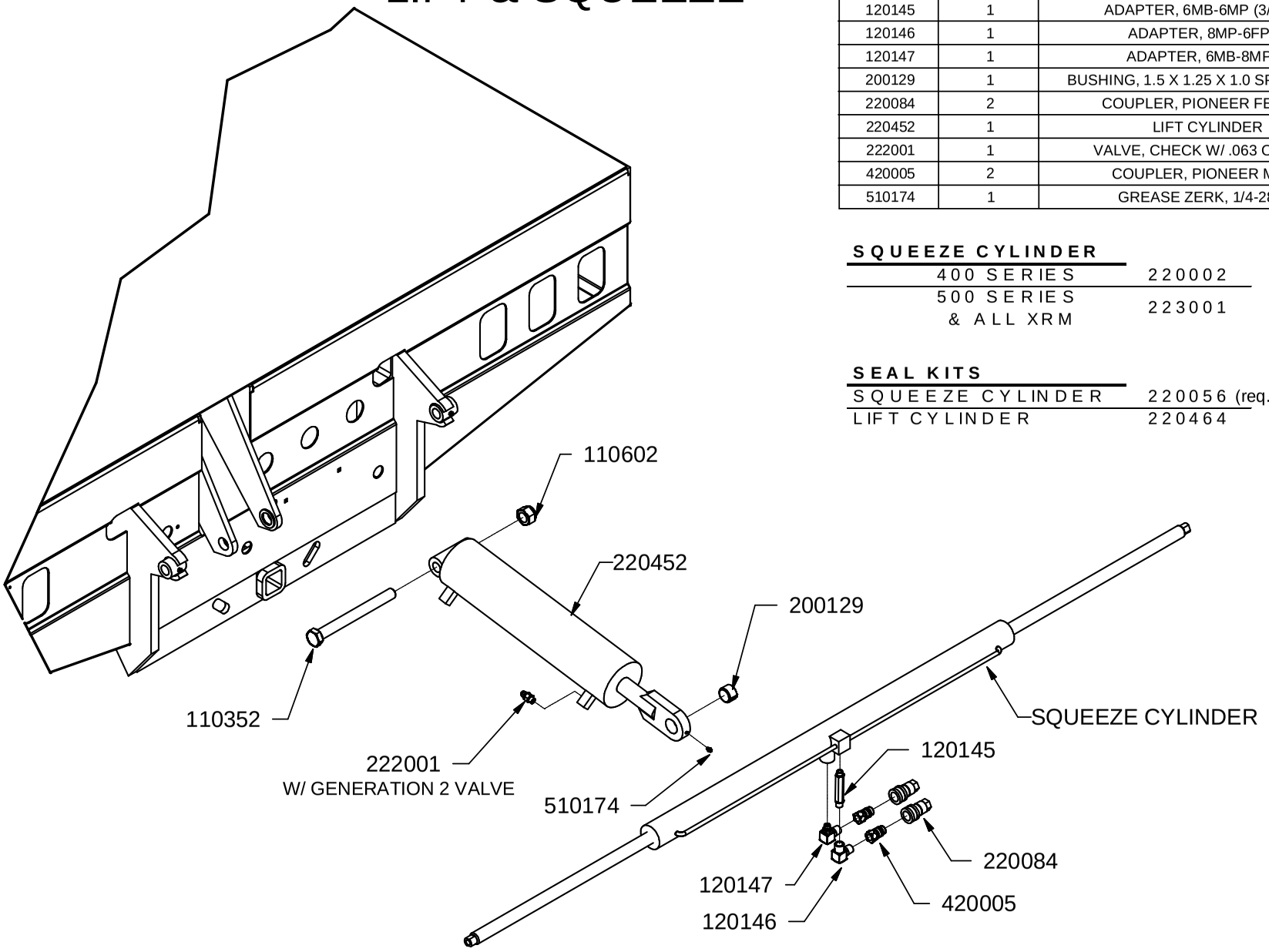
Parts List		
PART #	QUANTITY	DESCRIPTION
110352	1	BOLT, 1-8 X 10, GR8
110602	1	NUT, 1-8 LOCK NYLON INSERT
120145	1	ADAPTER, 6MB-6MP (3/8 X 4)
120146	1	ADAPTER, 8MP-6FP90
120147	1	ADAPTER, 6MB-8MP90
200129	1	BUSHING, 1.5 X 1.25 X 1.0 SPLIT STEEL
220084	2	COUPLER, PIONEER FEMALE
220452	1	LIFT CYLINDER
222001	1	VALVE, CHECK W/ .063 ORIFICE
420005	2	COUPLER, PIONEER MALE
510174	1	GREASE ZERK, 1/4-28 ST

SQUEEZE CYLINDER

400 SERIES	220002
500 SERIES & ALL XRM	223001

SEAL KITS

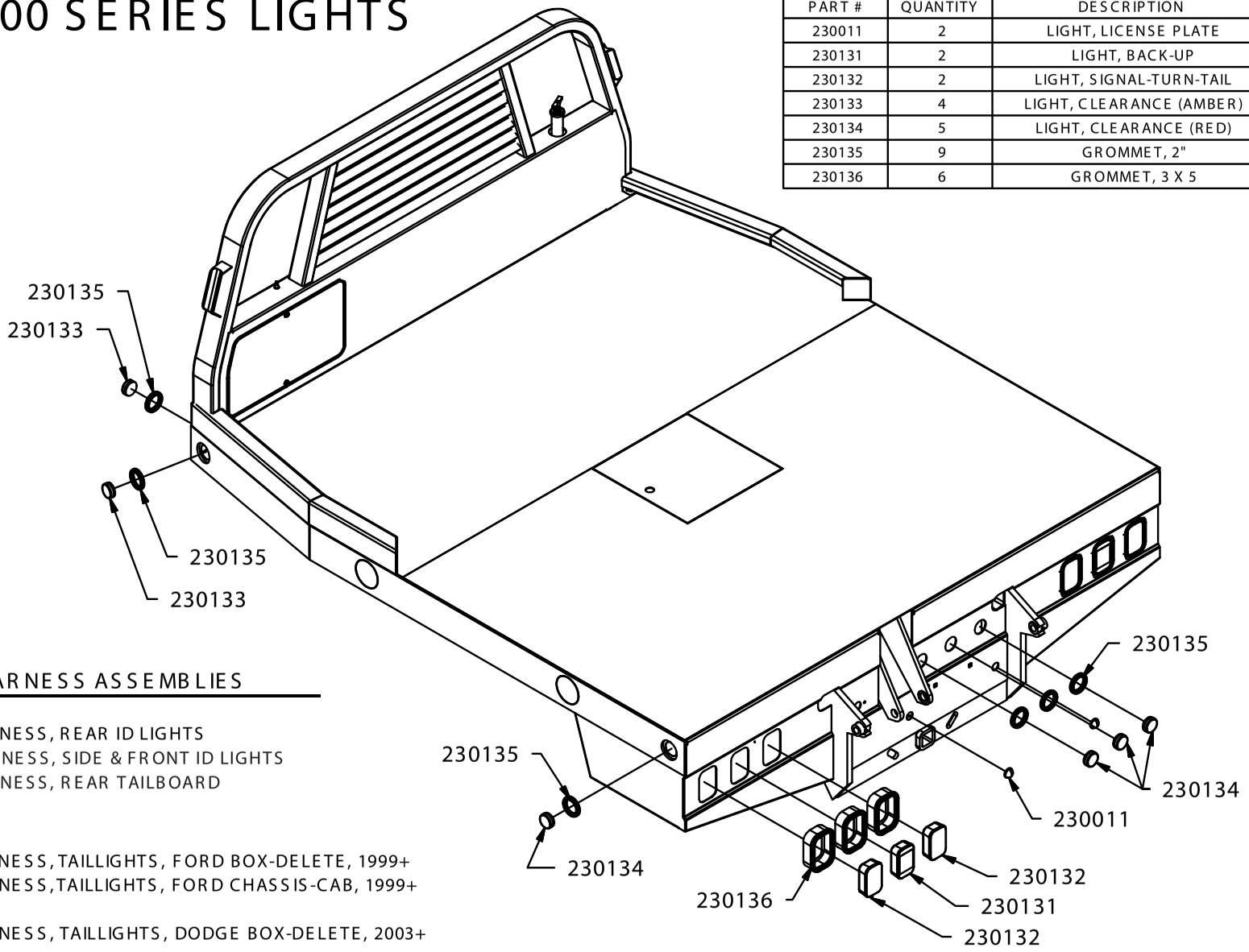
SQUEEZE CYLINDER	220056 (req. 2)
LIFT CYLINDER	220464



10/1/03

400 / 500 SERIES LIGHTS

Parts List		
PART #	QUANTITY	DESCRIPTION
230011	2	LIGHT, LICENSE PLATE
230131	2	LIGHT, BACK-UP
230132	2	LIGHT, SIGNAL-TURN-TAIL
230133	4	LIGHT, CLEARANCE (AMBER)
230134	5	LIGHT, CLEARANCE (RED)
230135	9	GROMMET, 2"
230136	6	GROMMET, 3 X 5



WIRING HARNESS ASSEMBLIES

ALL FLATBEDS

232044 HARNESS, REAR ID LIGHTS
232045 HARNESS, SIDE & FRONT ID LIGHTS
232048 HARNESS, REAR TAILBOARD

MODEL SPECIFIC:

FORD

232046 HARNESS, TAILLIGHTS, FORD BOX-DELETE, 1999+
232047 HARNESS, TAILLIGHTS, FORD CHASSIS-CAB, 1999+

DODGE

232049 HARNESS, TAILLIGHTS, DODGE BOX-DELETE, 2003+

GM

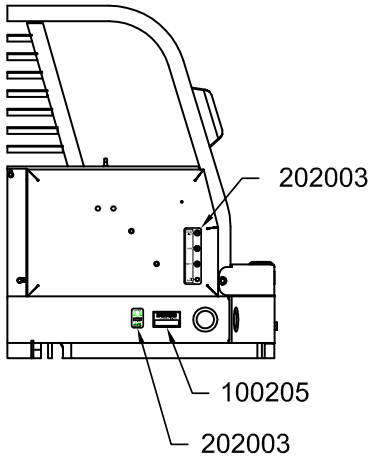
232050 HARNESS, TAILLIGHTS, GM BOX-DELETE, 2002+
232050 HARNESS, TAILLIGHTS, GM CHASSIS-CAB, 2002+

ALL OTHER TRUCKS

232049 HARNESS, TAILLIGHTS

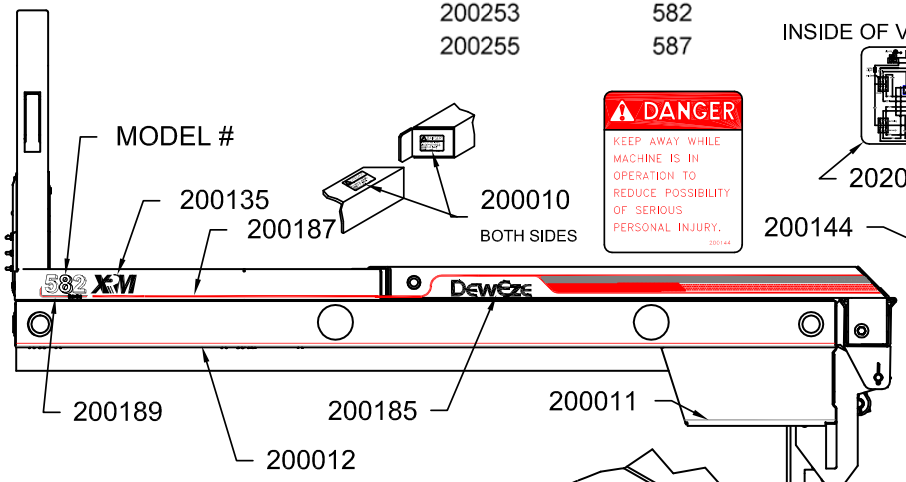
9/23/03

DECALS

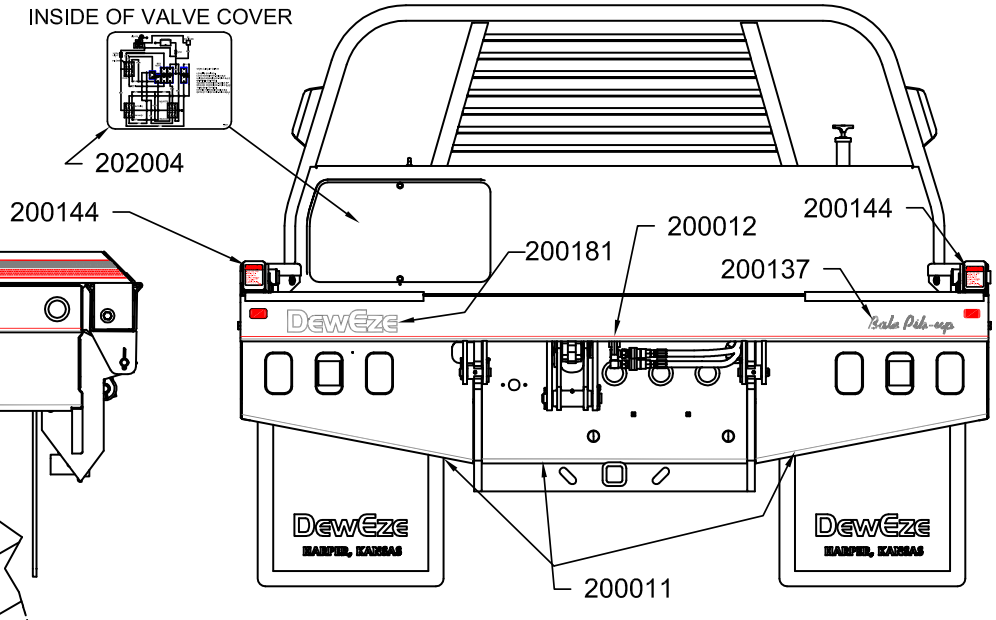


PART #	DESCRIPTION
100205	SERIAL NUMBER PLATE
	DECAL KITS
200211	400 SERIES
200140	400 SERIES XRM
205001	500 SERIES
205002	500 SERIES XRM
	MODEL NUMBER SETS
200193	470
200195	475
200197	477
200199	478
200201	480
200203	482
200205	485
200207	487
200252	578
200253	582
200255	587

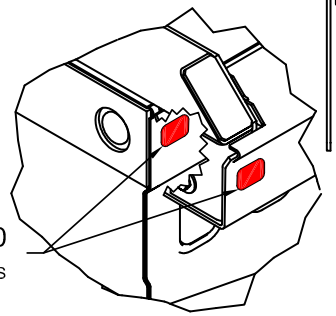
PART #	QTY	DESCRIPTION
200010	4	DANGER DECAL, HORIZONTAL
200011	--	SILVER PINSTRIPE
200012	--	RED/SILVER PINSTRIPE
200135	2	XRM DECAL
200137	1	BALE PIK-UP, SILVER SCRIPT
200144	2	DANGER DECAL, VERTICAL
200181	1	DEWEZE, SILVER
200185	1	HUGGER ARM DECAL, LT-RT
200187	--	STRIPING
200189	1	STRIPING, MODEL #
200190	4	REFLECTIVE DECAL
202003	1	DECAL, SWITCH IDENTIFICATION
202004	1	DECAL, RF SCHEMATIC
300002	1	FEMA DECAL



INSIDE OF VALVE COVER



IT IS THE OWNER'S RESPONSIBILITY TO REPLACE MISSING OR DAMAGED WARNING DECALS. DECALS ARE AVAILABLE FROM YOUR DEALER OR FROM THE DEWEZE FACTORY.



9/23/03

FLATBED ACCESSORIES
TOOLBOX 30"

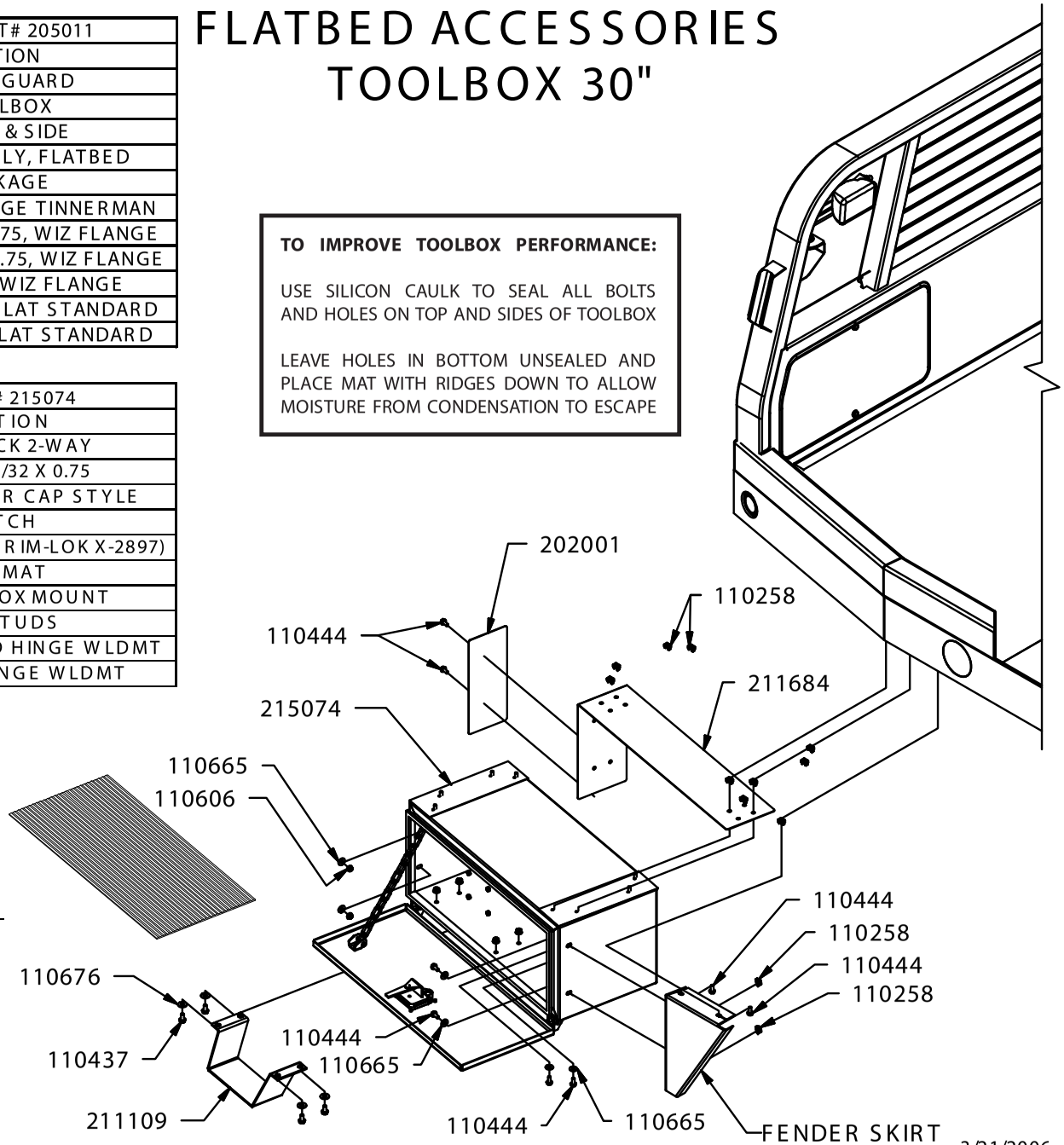
TOOLBOX COMPLETE W/STEP, PART# 205011			
PART #	QUANTITY		DESCRIPTION
202001	1		DECAL, CHIP GUARD
211109	1		STEP, TOOLBOX
211684	1		SHIELD, TOP & SIDE
215074	1		TOOLBOX ASSEMBLY, FLATBED
205012	1		BOLT PACKAGE
	110258	12	NUT, 5/16-18, CAGE TINNERMAN
	110437	4	BOLT, 3/8-16 X 0.75, WIZ FLANGE
	110444	14	BOLT, 5/16-18 X 0.75, WIZ FLANGE
	110606	2	NUT, 5/16-18 WIZ FLANGE
	110665	12	WASHER, 5/16" FLAT STANDARD
	110676	4	WASHER, 3/8" FLAT STANDARD

TOOLBOX ASSEMBLY, PART# 215074		
PART #	QTY	DESCRIPTION
110174	4	NUT, 1/4-20 LOCK 2-WAY
110300	3	COTTER PIN, 3/32 X 0.75
112011	3	PUSH NUT, WASHER CAP STYLE
200184	1	SEAL, LATCH
202010	1	SEAL, TOOLBOX LID (TRIM-LOK X-2897)
211119	1	TOOL BOX MAT
212003	2	GASKET, TOOLBOX MOUNT
212007	1	LATCH W/STUDS
215072	1	TOOL BOX DOOR AND HINGE WLDMT
215073	1	TOOL BOX AND HINGE WLDMT

TO IMPROVE TOOLBOX PERFORMANCE:

USE SILICON CAULK TO SEAL ALL BOLTS AND HOLES ON TOP AND SIDES OF TOOLBOX

LEAVE HOLES IN BOTTOM UNSEALED AND PLACE MAT WITH RIDGES DOWN TO ALLOW MOISTURE FROM CONDENSATION TO ESCAPE

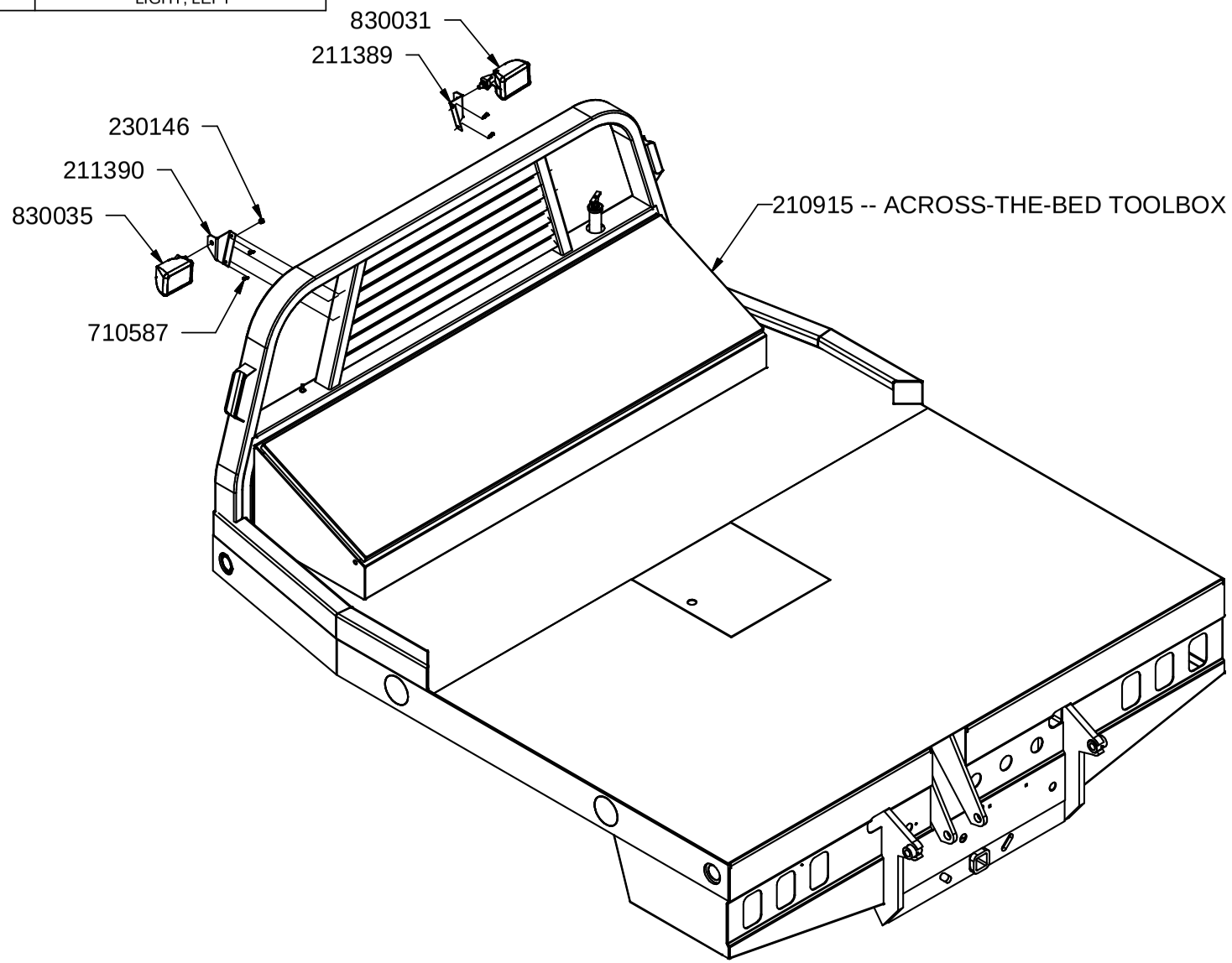


FENDER SKIRT			
400 SERIES		LEFT	RIGHT
	SHORT	211116	211115
	LONG	211293	211294
500 SERIES			
	SHORT	211569	211568
	LONG	211587	211588

3/21/2006

FLATBED ACCESSORIES
CARGO LIGHTS &
ACROSS THE BED TOOLBOX

CARGO LIGHT ASSY, PART#211391		
PART #	QUANTITY	DESCRIPTION
211389	1	LIGHT BRACKET, RIGHT
211390	1	LIGHT BRACKET, LEFT
230146	1	GROMMET, 3/16 ID X 9/16 OD
710587	4	SCREW, 3/16 X .75 TEK SELF-TAP
830031	1	LIGHT, RIGHT
830035	1	LIGHT, LEFT



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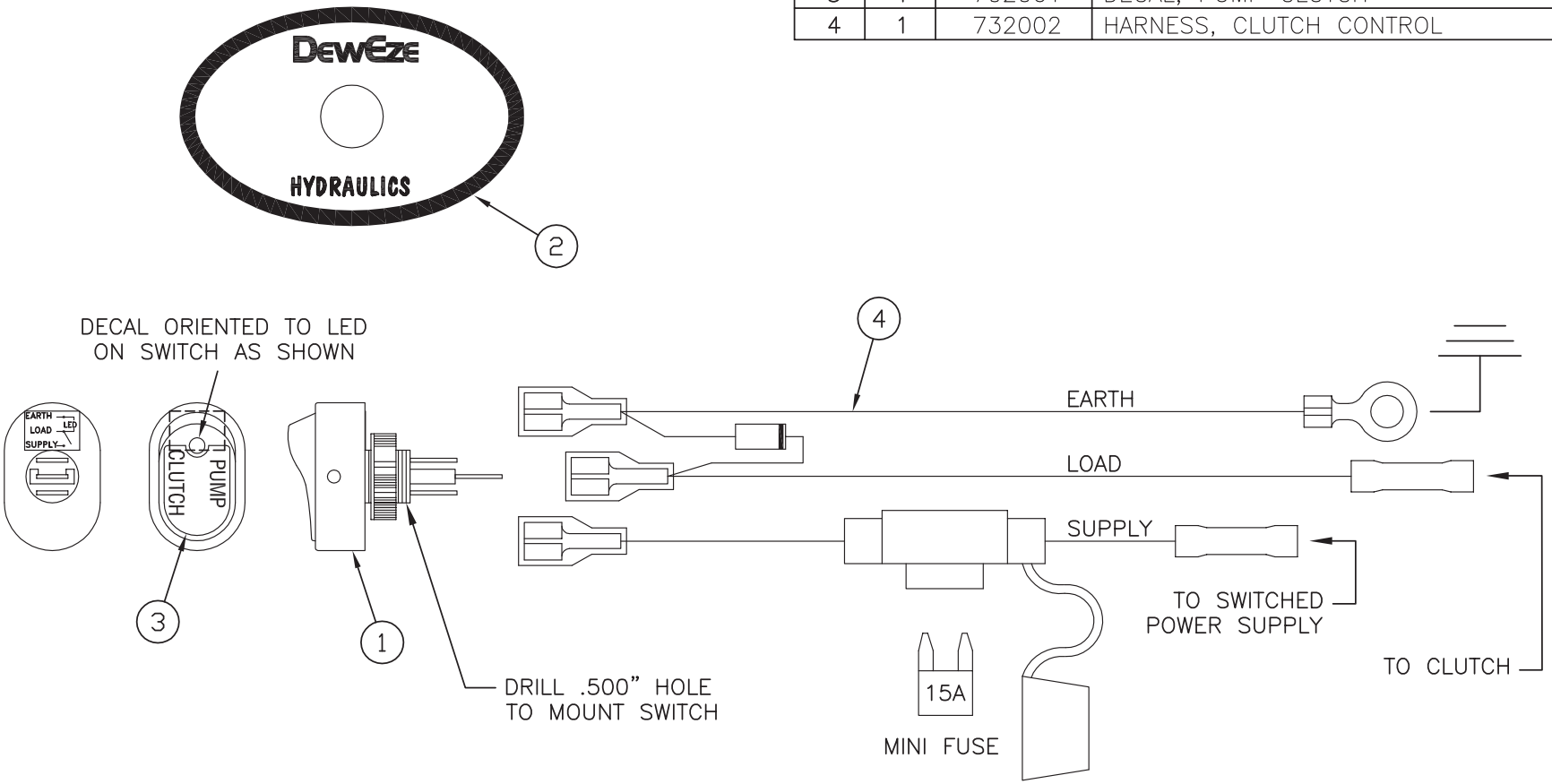
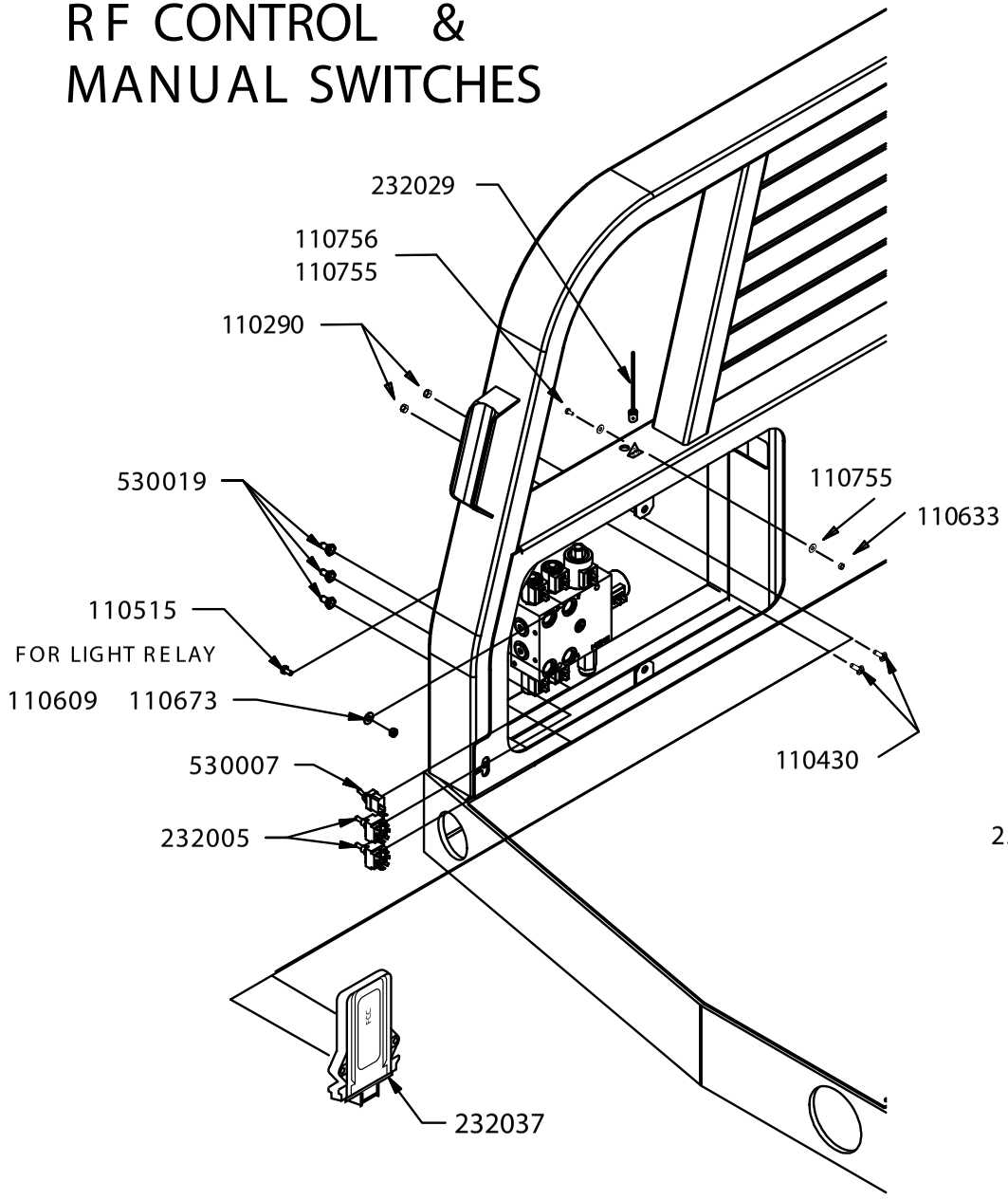
ITEM	QUAN	PART #	NAME
1	1	132044	SWITCH, SPST ROCKER LED
2	1	702002	DECAL, DEWEZE HYDRAULICS
3	1	702061	DECAL, PUMP CLUTCH
4	1	732002	HARNESS, CLUTCH CONTROL



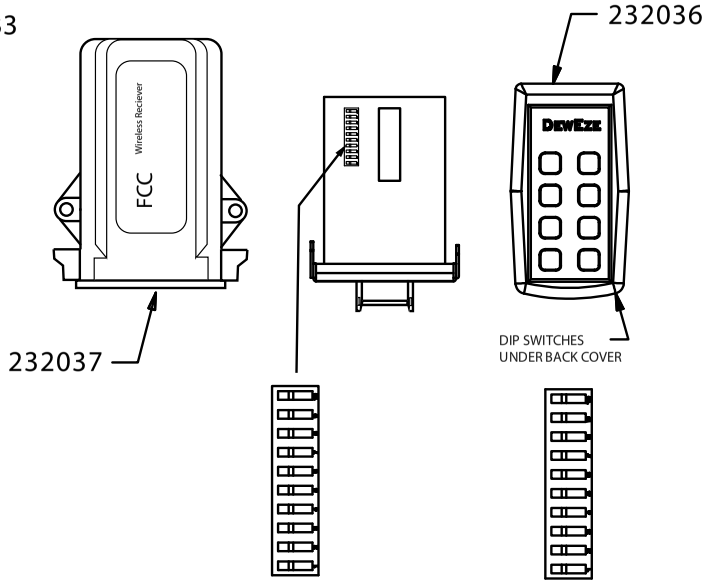
HARPER DEWEZE Goossen
HARPER, KANSAS

SWITCH, CLUTCH CONTROL ASSY 735001

RF CONTROL & MANUAL SWITCHES



Parts List		
PART #	QUANTITY	DESCRIPTION
110515	1	BOLT, 1/4-20 X .50
110609	1	NUT, 1/4-20
110673	1	WASHER, 1/4" FLAT STANDARD
110290	2	NUT, 1/4-20 WIZ FLANGE
110430	2	BOLT, 1/4-20 X 1.25
232005	2	TOGGLE SWITCH - 3 POS MOMENTARY
232036	1	TRANSMITTER, RF,VER 2,DIGITEC
232037	1	RECEIVER, RF, VER 2, DIGITEC
530007	1	TOGGLE SWITCH - 2 POS MAINTAINED
530019	3	SWITCH BOOT
232029	1	ANTENNA, 5", JOINTED
110756	1	SCREW, 6-32 X .5 PAN HEAD PHLP
110755	3	WASHER, #6 SHOULDER, NYLON
110633	1	NUT, 6-32



DIP SWITCHES IN RECEIVER AND TRANSMITTER MUST BE SET THE SAME

11/04

DEWEZE

VERSION II RF RECEIVER

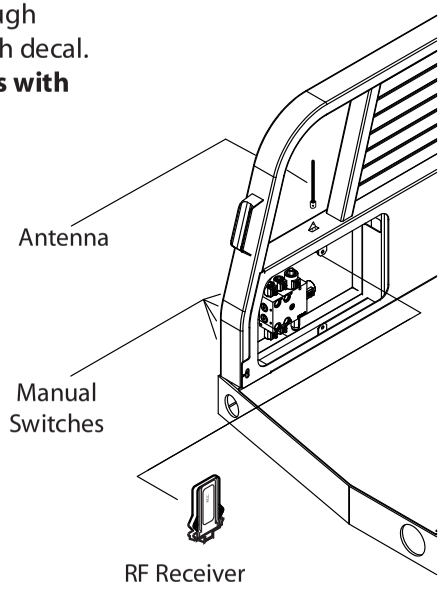
Installation Instructions:

1. Bolt left side of RF Receiver through existing hole in headache rack . Drill hole for right side, if necessary, and attach with bolt.
2. Mount triangular bracket with self-tapping screws (if welded bracket is not present). Use rubber grommets and 1/2" screw to attach antenna.
3. Run light green wire from receiver through hole in headache rack and attach to antenna. Drill hole, if necessary.

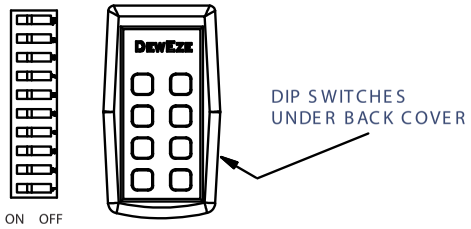
NOTE: Metal objects such as cake feeders or fuel tanks may interfere with radio waves from transmitter. The antenna may be moved to the top of the headache rack, or a second antenna may be installed in a different location to increase reception.

4. Mount manual switches through holes in headache rack. Attach decal. **Cover all switches and relays with plasticized undercoating.**

NOTE: The manual switches must be protected with rubber boots. The boots must be installed with the correct stem length on the lever so the they are not stretched when the switch is used. This is done by adjusting the jam nut on the lever stem.

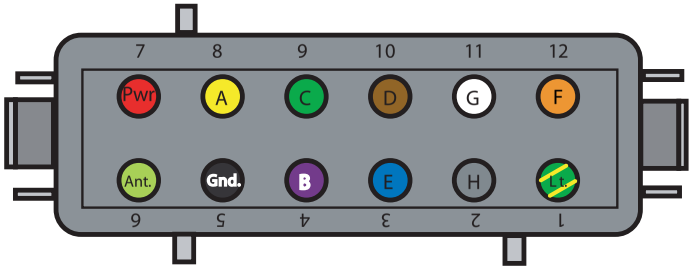


5. Set dip switches in transmitter to match dip switches in receiver. Use serial no. stickers to record ON/OFF positions and attach to both receiver and transmitter for future reference.



6. If the Deutsch Connector needs to be assembled, insert colored wires into the numbered positions as described below.

(Rear Side of Male Plug - Deutsch Connector)



7. Connect the colored wires to the valve as indicated below. See the following wiring diagrams for 2 and 3 bank wiring.

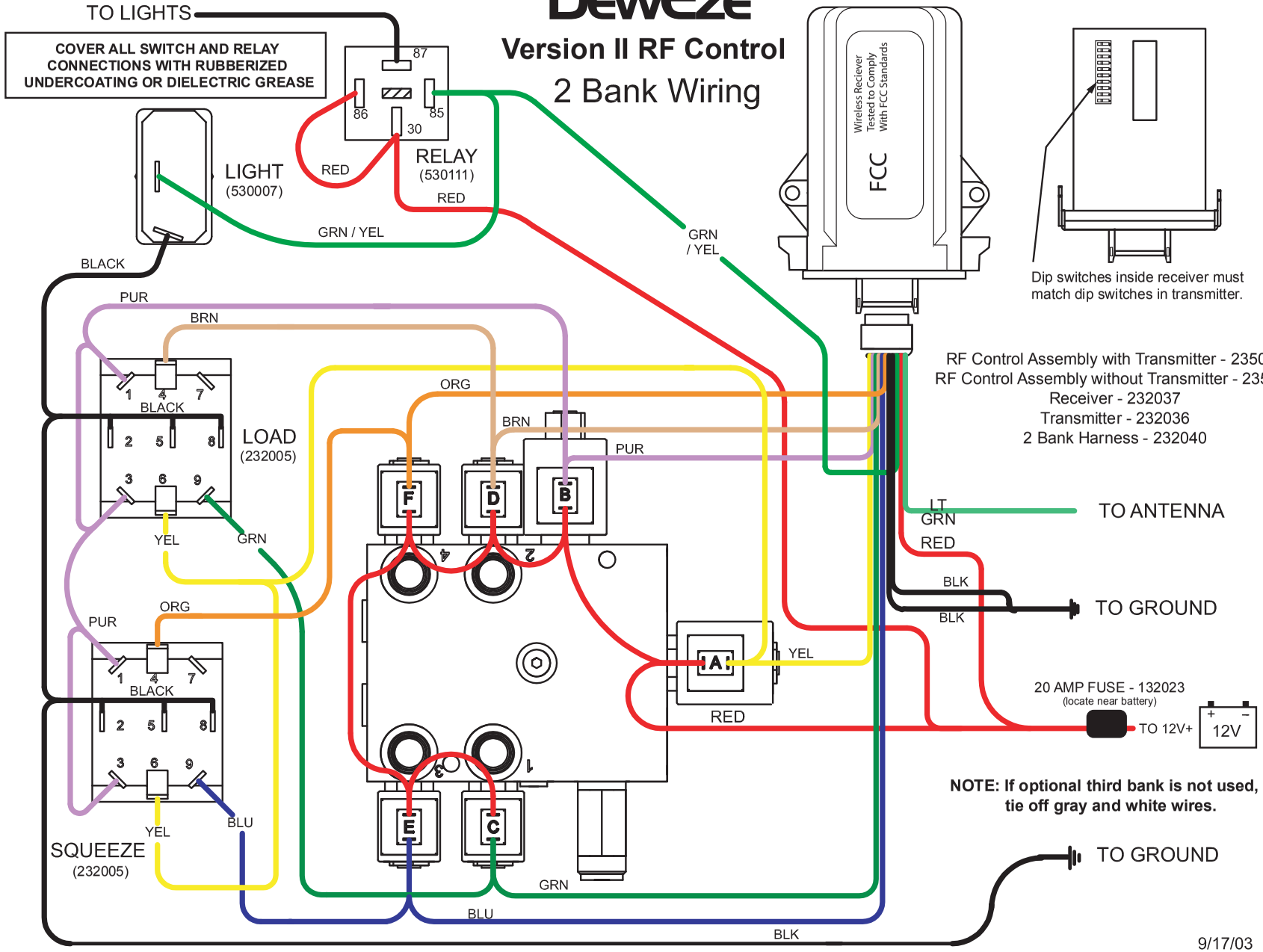
1. GN/YLW	Connect to LT GREEN/YELLOW WIRE from LIGHT RELAY
2. GRAY	Connect to VALVE H (3rd bank option only)
3. BLUE	Connect to VALVE E
4. PURPLE	Hook to PURPLE SWITCH WIRE and Connect to VALVE B
5. BLACK	Connect to GROUND
6. LT. GREEN	Connect to ANTENNA**
7. RED	Connect to POWER
8. YELLOW	Connect to VALVE A
9. GREEN	Connect to VALVE C
10. BROWN	Hook to BROWN SWITCH WIRE and Connect to VALVE D
11. WHITE	Connect to VALVE G (3rd bank option only)
12. ORANGE	Connect to VALVE F

HARPER

DewEze

Version II RF Control

2 Bank Wiring



RF Control Assembly with Transmitter - 235009
RF Control Assembly without Transmitter - 235011
Receiver - 232037
Transmitter - 232036
2 Bank Harness - 232040

NOTE: If optional third bank is not used, tie off gray and white wires.

9/17/03

NOTE:The SQUEEZE switch (232005) may be replaced with the optional DETENT switch (232056) for use with rear remote outlets. NOT FOR USE WITH ADD-ON VALVE

COVER ALL SWITCH AND RELAY CONNECTIONS WITH RUBBERIZED UNDERCOATING OR DIELECTRIC GREASE

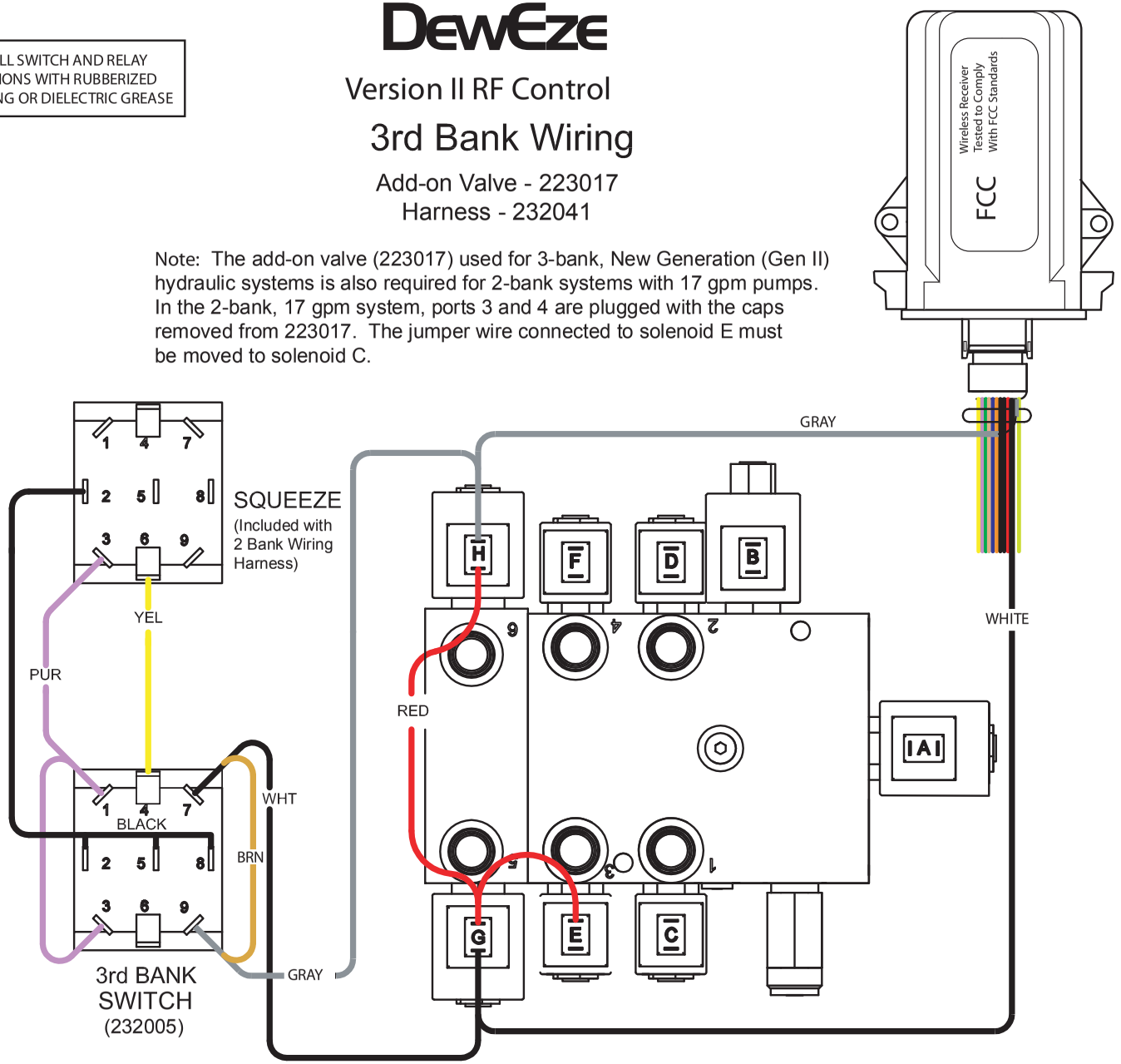
DewEze

Version II RF Control

3rd Bank Wiring

Add-on Valve - 223017
Harness - 232041

Note: The add-on valve (223017) used for 3-bank, New Generation (Gen II) hydraulic systems is also required for 2-bank systems with 17 gpm pumps. In the 2-bank, 17 gpm system, ports 3 and 4 are plugged with the caps removed from 223017. The jumper wire connected to solenoid E must be moved to solenoid C.



9/17/03

HARPER

NOTES

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DEWEZE

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